

* * * * * Welcome to STN International * * * * *

<u>NEWS 1</u>			Web Page URLs for STN Seminar Schedule - N. America
<u>NEWS 2</u>			"Ask CAS" for self-help around the clock
<u>NEWS 3</u>	JAN	27	Source of Registration (SR) information in REGISTRY updated and searchable
<u>NEWS 4</u>	JAN	27	A new search aid, the Company Name Thesaurus, available in CA/CAPlus
<u>NEWS 5</u>	FEB	05	German (DE) application and patent publication number format changes
<u>NEWS 6</u>	MAR	03	MEDLINE and LMedline reloaded
<u>NEWS 7</u>	MAR	03	MEDLINE file segment of TOXCENTER reloaded
<u>NEWS 8</u>	MAR	03	FRANCEPAT now available on STN
<u>NEWS 9</u>	MAR	29	Pharmaceutical Substances (PS) now available on STN
<u>NEWS 10</u>	MAR	29	WPIFV now available on STN
<u>NEWS 11</u>	MAR	29	New monthly current-awareness alert (SDI) frequency in RAPRA
<u>NEWS 12</u>	APR	26	PROMT: New display field available
<u>NEWS 13</u>	APR	26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
<u>NEWS 14</u>	APR	26	LITAlert now available on STN
<u>NEWS 15</u>	APR	27	NLDB: New search and display fields available
<u>NEWS 16</u>	May	10	PROUSDDR now available on STN
<u>NEWS 17</u>	May	19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
<u>NEWS 18</u>	May	12	EXTEND option available in structure searching
<u>NEWS 19</u>	May	12	Polymer links for the POLYLINK command completed in REGISTRY
<u>NEWS 20</u>	May	17	FRFULL now available on STN
<u>NEWS EXPRESS</u>			MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
<u>NEWS HOURS</u>			STN Operating Hours Plus Help Desk Availability
<u>NEWS INTER</u>			General Internet Information
<u>NEWS LOGIN</u>			Welcome Banner and News Items
<u>NEWS PHONE</u>			Direct Dial and Telecommunication Network Access to STN
<u>NEWS WWW</u>			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:08:44 ON 25 MAY 2004

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=> file caplus
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 11:08:58 ON 25 MAY 2004

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FILE COVERS 1907 - 25 May 2004 VOL 140 ISS 22
FILE LAST UPDATED: 24 May 2004 (20040524/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s clay galleries and intercalation

137386 CLAY
932 GALLERIES
42 CLAY GALLERIES
(CLAY(W)GALLERIES)
24589 INTERCALATION

L1 24 CLAY GALLERIES AND INTERCALATION

=> s ll and (oil or hydrocarbon) and (well or wellbore)

678136 OIL
307068 HYDROCARBON
1512208 WELL
1362 WELLBORE

L2 1 L1 AND (OIL OR HYDROCARBON) AND (WELL OR WELLBORE)

=> d 12

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 2003:279464 CAPLUS
DN 138:259344
TI Zirconia pillared clays: synthesis, characterization and catalytic properties in the NOx selective reduction by hydrocarbons in the oxygen excess
AU Sadykov, V. A.; Kuznetsova, T. G.; Doronin, V. P.; Sorokina, T. P.; Alikina, G. M.; Kochubei, D. I.; Novgorodov, B. N.; Paukshtis, E. A.; Fenelonov, V. B.; Zaikovskii, V. I.; Rogov, A.; Anufrienko, V. F.; Vasenin, N. T.; Matyshak, V. A.; Konin, G. A.; Rozovskii, A. Ya.; Tretyakov, V. F.; Burdeynaya, T. N.; Ross, J. R. H.; Breen, J. P.
CS G. K. Boreskov Institute of Catalysis, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, 630090, Russia
SO Khimiya v Interesakh Ustoichivogo Razvitiya (2003), 11(1), 249-262
CODEN: KIURFI; ISSN: 0869-8538
PB Siberian Branch of the Russian Academy of Sciences
DT Journal
LA English
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 12 abs

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

Citing References

AB Procedures for synthesis of thermally stable up to 750 °C zirconia-pillared clays (ZrPC) via **intercalation** of a montmorillonite clay with zirconium polyoxocations modified by cations of Ce, Fe, Al, Ca, Sr, Ba, were elaborated. Optimization of the prepn. procedure allowed to obtain samples with sp. surface area up to 300-400 m²/g, the gallery height up to 10 Å and micropore vol. up to 0.13 m²/g. Active components comprised of copper cations and/or Pt clusters were supported on ZrPC by

using photoassisted deposition. The structural and surface properties of pillars and effects of mutual interaction between the nanosized zirconia particles, and metal and oxide components were elucidated by using EXAFS, UV-Vis, ESR, H₂ TPR, NO_x TPD and FTIRS of adsorbed CO mols. Catalytic properties of these systems were characterized in the reactions of NO_x selective redn. in the excess of oxygen by propane, propylene and decane. Strong interaction between the Pt atoms and copper cations resulted in substantial variation of the reactivity of the surface oxygen as **well** as bonding strength and coverages of surface ad-NO_x species. It was reflected in substantial improvement of the low-temp. activity of these systems as compared with those contg. sep. components. The nature of cation used for pillar modification was found to affect catalytic properties of supported active components, which can be explained by variation of the pillars structure and uniformity of their spatial distribution in **clay galleries**.

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L Number	Hits	Search Text	DB	Time stamp
1	63	clay adj galleries	USPAT; US-PGPUB	2004/05/25 11:07
2	50	(clay adj galleries) and intercalation	USPAT; US-PGPUB	2004/05/25 10:51
3	28	((clay adj galleries) and intercalation) and (oil or hydrocarbon) and (well or wellbore)	USPAT; US-PGPUB	2004/05/25 10:52
4	67	clay adj galleries	USPAT; US-PGPUB; EPO; DERWENT	2004/05/25 10:52
5	50	(clay adj galleries) and intercalation	USPAT; US-PGPUB; EPO; DERWENT	2004/05/25 10:53
6	28	((clay adj galleries) and intercalation) and (oil or hydrocarbon) and (well or wellbore)	USPAT; US-PGPUB; EPO; DERWENT	2004/05/25 10:53
7	0	clay adj galleries	USOCR	2004/05/25 11:07